TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-10-04** **Date: 13-07-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Prividing street sign boards to main and Cross road of kodigehalli in Ward No.08

Agency : N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092

Customer's Reference : BBMP/EE/BTP/WO/188/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-07-17

Sample ID No : 2017-07-10-04/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	18	18	1.8	98.2	90-100	90-100	90-100	95-100
3	2.36 mm	149	167	16.7	83.3	60-95	75-100	85-100	95-100
4	1.18 mm	225	392	39.2	60.8	30-70	55-90	75-100	90-100
5	600 micron	201	593	59.3	40.7	15-34	35-59	60-79	80-100
6	300 micron	215	808	80.8	19.2	5-20	8-30	12-40	15-50
7	150 micron	118	926	92.6	7.4	0-10	0-10	0-10	0-15
8	Pan	74	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-07-10-04** **Date: 13-07-17**

Sample ID No : 2017-07-10-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.18	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
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Quality Manager

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-24-03** **Date: 29-07-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Privіding street sign boards to main and Cross road of kodigehalli in Ward No.08

Agency : N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092

Customer's Reference : BBMP/EE/BTP/WO/188/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-17

Sample ID No : 2017-07-24-03/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	22/07/2017	29/07/2017	149.87 X 149.58 X 150.38	22418	8.154	352.3	16.8	17.4
2	M20 Concrete	M20	22/07/2017	29/07/2017	150.47 X 150.47 X 150.69	22641	8.169	405.3	17.9	
3	M20 Concrete	M20	22/07/2017	29/07/2017	150.28 X 149.87 X 150.11	22522	8.172	391.9	17.4	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-24-03** **Date: 19-08-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Privіding street sign boards to main and Cross road of kodigehalli in Ward No.08

Agency : N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092

Customer's Reference : BBMP/EE/BTP/WO/188/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-07-17

Sample ID No : 2017-07-24-03/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	M20 Concrete	M20	22/07/2017	19/08/2017	149.11 X 150.24 X 150.66	22402	8.147	533.2	23.8	23.5
2	M20 Concrete	M20	22/07/2017	19/08/2017	150.47 X 150.33 X 151.14	22620	8.165	545.1	24.1	
3	M20 Concrete	M20	22/07/2017	19/08/2017	150.69 X 150.24 X 149.87	22640	8.175	509.4	22.5	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-07-10-04** **Date: 13-07-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Privіding street sign boards to main and Cross road of kodigehalli in Ward No.08
Agency	:	N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092
Customer Reference	:	BBMP/EE/BTP/WO/188/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-17
Sample ID No	:	2017-07-10-04/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	295	295	5.9	94.1	90-100
3	10 mm	2514	2809	56.2	43.8	25-55
4	4.75 mm	2017	4826	96.5	3.5	0-10
5	Pan	174	5000	100	0	–

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig. Date

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-07-10-04** **Date: 13-07-2017**

Sample ID No : 2017-07-10-04/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**10.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.51**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**24.1**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**20.5**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-07-05-04** **Date: 08-07-2017**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Prividing street sign boards to main and Cross road of kodigehalli in Ward No.08

Agency : N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092

Customer's Reference : BBMP/EE/BTP/WO/188/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-17

Sample ID No : 2017-07-05-04/01

Sample Type : Zuari 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 06-07-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.42	–
2	Finess by Air permeablity method (m^2/kg, Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-05-04** **Date: 13-07-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Privіding street sign boards to main and Cross road of kodigehalli in Ward No.08
Agency	:	N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092
Customer's Reference	:	BBMP/EE/BTP/WO/188/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample ID No	:	2017-07-05-04/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-07-05-04** **Date: 03-08-2017**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Privіding street sign boards to main and Cross road of kodigehalli in Ward No.08
Agency	:	N.N Sreenivasaiah, #2405, Shakanagara, E' Block, Bangalore-560 092
Customer's Reference	:	BBMP/EE/BTP/WO/188/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample ID No	:	2017-07-05-04/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-07-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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****End of Report****